SABIC Innovative Plastics LNP THERMOCOMP PH0460A PA 6

Category : Polymer , Thermoplastic , Nylon , Nylon 6

Material Notes:

LNP* THERMOCOMP* PH0460A is a compound based on Nylon 6. Added feature of this material is: High Specific Gravity.

Order this product through the following link:
http://www.lookpolymers.com/polymer_SABIC-Innovative-Plastics-LNP-THERMOCOMP-PH0460A-PA-6.php

Physical Properties	Metric	English	Comments
Density	4.49 g/cc	0.162 lb/inÂ³	ISO 1183
	4.51 g/cc	0.163 lb/inÂ³	ASTM D792
Moisture Absorption	0.100 %	0.100 %	50% RH, 24 hrs; ASTM D570
Linear Mold Shrinkage, Flow	0.011 - 0.013 cm/cm @Time 86400 sec	0.011 - 0.013 in/in @Time 24.0 hour	ASTM D955
	0.012 cm/cm @Time 86400 sec	0.012 in/in @Time 24.0 hour	ISO 294
Linear Mold Shrinkage, Transverse	0.011 - 0.013 cm/cm @Time 86400 sec	0.011 - 0.013 in/in @Time 24.0 hour	ASTM D955
	0.012 cm/cm @Time 86400 sec	0.012 in/in @Time 24.0 hour	ISO 294

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	56.0 MPa	8120 psi	ASTM D638
	56.0 MPa	8120 psi	ISO 527
Tensile Strength, Yield	55.0 MPa	7980 psi	ISO 527
	59.0 MPa	8560 psi	ASTM D638
Elongation at Break	0.80 %	0.80 %	ISO 527
	1.0 %	1.0 %	ASTM D638
Elongation at Yield	0.80 %	0.80 %	ISO 527
	0.90 %	0.90 %	ASTM D638
Tensile Modulus	8.43 GPa	1220 ksi	1 mm/min; ISO 527
	9.65 GPa	1400 ksi	50 mm/min; ASTM D638

Mechanical Properties	Metric	English	Comments
Flexural Strength	93.0 MPa	13500 psi	ISO 178
	96.0 MPa	13900 psi	ASTM D790
Flexural Modulus	7.80 GPa	1130 ksi	ISO 178
	8.27 GPa	1200 ksi	ASTM D790
Izod Impact, Notched	0.420 J/cm	0.787 ft-lb/in	ASTM D256
Izod Impact, Unnotched	1.44 J/cm	2.70 ft-lb/in	ASTM D4812
Izod Impact, Notched (ISO)	4.00 kJ/mÂ²	1.90 ft-lb/inÂ²	80*10*4; ISO 180/1A
Izod Impact, Unnotched (ISO)	16.0 kJ/mÂ²	7.61 ft-lb/inÂ²	80*10*4; ISO 180/1U
Dart Drop, Total Energy	7.00 J	5.16 ft-lb	Instrumented Impact Energy @ peak; ASTM D3763
Impact Test	2.00 J	1.48 ft-lb	Multiaxial Impact; ISO 6603

Thermal Properties	Metric	English	Comments
CTE, linear, Parallel to Flow	42.0 Âµm/m-Â°C @Temperature -40.0 - 40.0 Â°C	23.3 Âµin/in-Â°F @Temperature -40.0 - 104 Â°F	ISO 11359-2
	43.2 Âµm/m-Â°C @Temperature -40.0 - 40.0 Â°C	24.0 Âµin/in-Â°F @Temperature -40.0 - 104 Â°F	ASTM E 831
CTE, linear, Transverse to Flow	45.0 Âµm/m-Â°C @Temperature -40.0 - 40.0 Â°C	25.0 Âµin/in-Â°F @Temperature -40.0 - 104 Â°F	ASTM E 831
	45.0 Âµm/m-Â°C @Temperature -40.0 - 40.0 Â°C	25.0 Âµin/in-Â°F @Temperature -40.0 - 104 Â°F	ISO 11359-2
Deflection Temperature at 0.46 MPa (66 psi)	196 Â°C	385 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Bf
	196 Â°C @Thickness 3.20 mm	385 Â°F @Thickness 0.126 in	unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	149 Â°C	300 Â°F	Flatw 80*10*4 sp=64mm; ISO 75/Af
	156 Â°C @Thickness 3.20 mm	313 Â°F @Thickness 0.126 in	unannealed; ASTM D648

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